BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Rajarajeshwari Nagara Division, RR Nagara Zone, B.B.M.P., Bangalore.

Tender Notification No. RRND/EE/Tend/05/2020-21, Date: 07.08.2020

Indet No: BBMP/2020-21/RD/WORK_INDENT44188

SCHEDULE -B

Name of Work: Improvements of Siddhartha Nagara slum in ward no 16 in RR Nagar Constituency

Sl.No	Qty	Description of work	Unit	In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	93.60	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. Complete As per the Engineer Incharge.	Cum	424.00	Rupees Four Hundred Twenty Four Only
2	1720.58	Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification Complete As per the Engineer Incharge.	Cum	248.00	Rupees Two Hundred Forty Eight Only
3	261.48	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete As per the Engineer Incharge.	Cum	4703.00	Rupees Four Thousand Seven Hundred Three Only
4	552.85	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per Complete As per the Engineer Incharge.	Cum	6557.00	Rupees Six Thousand Five Hundred Fifty Seven Only

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5	33.61	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.Complete As per the Engineer Incharge.	Tonne	81300.00	Rupees Eighty One Thousand Three Hundred Only
6	1442.34	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)	Sqm	2337.00	Rupees Two Thousand Three Hundred Thirty Seven Only
7	57.60	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) (Approved Data rate)	Sqm	5418.00	Rupees Five Thousand Four Hundred Eighteen Only
8	1020.54	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Complete As per the Engineer Incharge.	Cum	1043.00	Rupees One Thousand Forty Three Only
9	3173.16	Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. Complete As per the Engineer Incharge.	Cum	89.00	Rupees Eighty Nine Only
10	1449.85	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.-do- with 225mm outer dia Complete As per the Engineer Incharge.	mtrs	2124.00	Rupees Two Thousand One Hundred Twenty Four Only
11	105.47	Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifcations.Complete As per the Engineer Incharge.	cum	4703.00	Rupees Four Thousand Seven Hundred Three Only

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12	52.00	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom, 1.67 m deep and 0.56m dia at top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Complete As per the Engineer Incharge.	Nos	27023.00	Rupees Twenty Seven Thousand Twenty Three Only
13	155.00	Constructing brick masonry inspection chamber for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS. – do – 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450m(Complete As per the Engineer Incharge.	Nos	5898.00	Rupees Five Thousand Eight Hundred Ninety Eight Only
14	104.00	Making connection of drain or sewer line of size 230 to 300 mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M 15 with 20mm and downsize granite metal, cement plastered on both sides of mix 1:3, finished with a floating coat of neat cement, and making necessary channels for the drain, including cost of materials, labour charges, curing complete as per specifications. Complete As per the Engineer Incharge.	Nos	3881.00	Rupees Three Thousand Eight Hundred Eighty One Only
15	52.00	Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications.Complete As per the Engineer Incharge.	Nos	307.00	Rupees Three Hundred Seven Only

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16	750.00	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia Complete As per the Engineer Incharge.	Mtrs	483.00	Rupees Four Hundred Eighty Three Only
17	1020.54	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Complete As per the Engineer Incharge.	Cum	2094.00	Rupees Two Thousand Ninety Four Only
18	1020.54	.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5-do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. Complete As per the Engineer Incharge.	Cum	4078.00	Rupees Four Thousand Seventy Eight Only
19	1020.54	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc.,	Cum	5470.00	Rupees Five Thousand Four Hundred Seventy Only

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20	6803.58	Vaccum de-watering with vaccum pump and suction mat and . compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. Complete As per the Engineer Incharge.	sqm	76.00	Rupees Seventy Six Only
21	300.00	Supplying of LED Streetlight lulminare with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with injection moulded polycarbonate material, delivering superior light output. rated life Burning Krs 50000 hr @ Lumen Maintenace of 70% maximum light intensity should be between 60 degrees to 70 degrees. CCT>550K,IP 66 Optical and electrical compartment & impact resistance of complete luminaire>IK08. power Factor >0.9 with mains Surge Protection-Min 5KV along with Over Voltage/Overload, short circuit/miss-wiring protection. Compatible for pole mouting with outer dia of 40mm tio50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60HZ applilcation Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with Rohsw UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Lilght fixture with ---W System power consumption, LED Efficiency>130im/w, nominal CRI>75. luminaire manufacture should have in-house facility accredited by	Each	5753.00	Rupees Five Thousand Seven Hundred Fifty Three Only
22	22.00	Supplying and fixing of 4pole power contactor with NO/NC Contacts on Existing Wood/panel biard using necessary bolts, nuts,washers and wiring Ect, complete with AC-3 Rating and as per IS-13947(100 to 125Amps, Complete As per the Engineer Incharge.	Each	7559.00	Rupees Seven Thousand Five Hundred Fifty Nine Only
23	44.00	Supplying and Fixing miniature circuit breakers on exisiting MCB distribution boards using necessary fixing materriais and 'C' Type curve, indicator ON/OFF, energy cross-3 with short circuit breakiong capacity of 10k and complete wiring as required confirming to IEC 60898 Complete As per the Engineer Incharge.	Each	759.00	Rupees Seven Hundred Fifty Nine Only
24	44.00	Supplying and Installation/Fixing/Provision of Outdoor type Thermoplastic Modular panel enclosure with transparent polycarbonate Lid, shock proof, IP65 (Weather Proof).rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix single Phase/three Phase Engergy Meter in Suiteble base plate and having a provision for Fuse/MCB cutout with suitable transparent hinged flap operating MCB along with complete tamper proof SEALING facility., 300mmX450mmX214mm Complete As per the Engineer Incharge.	Each	5382.00	Rupees Five Thousand Three Hundred Eighty Two Only

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25	22.00	Micro processor based electronic timer consisting of Display Unit (LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/Contactor in programmable mode (pre-defined ON/Off time)or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (lux level using IR sensor), built in software to seclect the mode of operation by the user (Approvaed Rate)	Each	7573.00	Rupees Seven Thousand Five Hundred Seventy Three Only
26	300.00	Supplying and fixing of ....mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1X40/2X40 watts fluorescent tube street light fitting of all Capacties. To GI or CI or rail or RCC pole/wall using suitable clamps. bolts and nuts wiring using suitable capacity wires. Using 32mm dia G.I.Pipe Complete As per the Engineer Incharge.	Each	877.00	Rupees Eight Hundred Seventy Seven Only
27	300.00	Fixing charges of post top/Gate/Garden fitting /LED on the existing CI/GI or any other pipe using required size of reducer, wiring using suitable wires,Complete As per the Engineer Incharge.	Each	162.00	Rupees One Hundred Sixty Two Only
28	22.00	Supplying and fixing Moulded case circuit Breker (MCCB) over the exisiting wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete protection of overload and Short circuit with tharmal Mangnetic/Micro processor relese and Earth Fault as per IS-13947(Icu=Ics)100Amps 25ka.Complete As per the Engineer Incharge.	Each	4756.00	Rupees Four Thousand Seven Hundred Fifty Six Only
29	3000.00	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, stranded Aluminium wire single core in open or Concealed system of Wiring, 4 sqmm Complete As per the Engineer Incharge.	mtrs	9.00	Rupees Nine Only
30	300.00	Suppling of 1.1 KV LT Ug Cable XLPE or Heat resistant PVC insulateded PVC Extruded inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistiy 14 Ohma/kms (Max) as per IS-3975 , 3.5 core 25 sqmm Complete As per the Engineer Incharge.	mtrs	193.00	Rupees One Hundred Ninety Three Only
31	142.00	Labour Charges for laying of 1.1 Kv class UG cable in Existing trench GI pipe/ stoneware pipe/on wall/on pole as required.25 sqmm to 75 sqmm(Complete As per the Engineer Incharge.	mtrs	16.00	Rupees Sixteen Only

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